

Switch OFF the redundant DRCU
File: H_FCP_SPI_RDRF.xls
Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to switch OFF the redundant
Detector Readout and Control Unit (DRCU)

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

SPIRE is in DRCU_ON mode

End of Procedure

SPIRE is in DPU_ON mode

Reference File(s)

Input Command Sequences

Output Command Sequences

HFSRDRF

Referenced Displays

ANDs GRDs SLDs
SA_7_559
ZAZ7F999

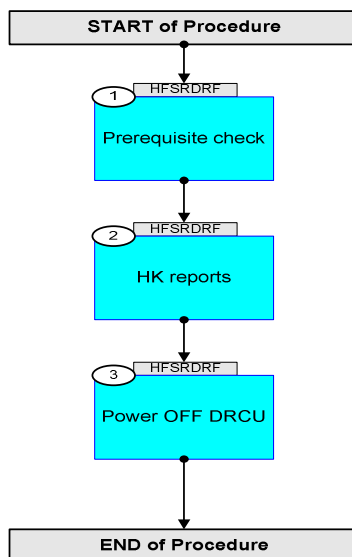
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
07/08/2007		1	Created	R. Biggins	
21/11/2007		1.01	Validation : Time tag added to LCL off command	R. Biggins	
			Update due to initial testing against the simulator:□		
15/01/2008		2	- TCs updated due to new DB	R. Biggins	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
HFSRDRF Switch OFF DRCU (Rd)				
SSID :				
1		Prerequisite check		Next Step: 2
		Verify Telemetry MODE SM00M500	= DRCU_ON	AND=SA_7_559
2		HK reports		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE ---- -- SSID : 370	SC001500 8c020001 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_MODE SET_OBS_MODE Command Parameter(s) : OBSERVING_MODE SP02N500 TC Control Flags : GBM IL DSE ---- -- SSID : 370	SC002500 ff <hex>	
		Verify Telemetry MODE SM00M500	= DRCU_OFF	AND=SA_7_559
	ET=+00.00.02 UT=+00.00.02	SET_OBS_MODE SET_OBS_MODE Command Parameter(s) : OBSERVING_MODE SP02N500 TC Control Flags : GBM IL DSE ---- -- SSID : 370	SC002500 0 <hex>	
		Verify Telemetry MODE SM00M500	DPU_ON	AND=SA_7_559

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.05 UT=+00.00.05	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC001500 80000000 <hex>	
	ET=+23.59.59 UT=+23.59.59	CLEAR_HK_REPORT CLEAR_HK_REPORT Command Parameter(s) : PCKTID_CLEARHK SPR6N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCR01500 300 <hex>	
	ET=+00.00.00 UT=+00.00.00	CLEAR_HK_REPORT CLEAR_HK_REPORT Command Parameter(s) : PCKTID_CLEARHK SPR6N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCR01500 301 <hex>	
		Ensure that the following parameter is not incrementing every 4 seconds TM2N SMT1N500		AND=SA_7_559
		Ensure that the following parameter is not incrementing every 4 seconds THSK SM00T500		AND=SA_7_559
3		Power OFF DRCU		Next Step: END
	ET=+00.00.00 UT=+00.00.00	Execute Telecommand SwOff_SpireHSFCU_R_L52 TC Control Flags : GBM IL DSE --Y -- --- SSID : 10	DC52B170	
		Verify Telemetry SpirHsfR_L52_1S WM72C565	= OFF	AND=ZAZ7F999
		Verify Telemetry SpireHsfR_L52_I WM708565	= 0.0 A	AND=ZAZ7F999
End of Procedure				